

PROTECH™ 1000 Z2

CHARACTERISTICS

ProTech™ 1000 Z2 delivers ppb-level, no-interference H₂S and true total sulfur measurement with ≤20-second predictive alarms. It provides custody transfer–defensible measurement in a compact, uptime-focused tape analyzer.

Dimensions

- Single Stream: 16"h x 12"w x 8"d
- Multi-Stream: 27"h x 33"w x 8"d
- Total Sulfur: 34"h x 55"w x 8"d

Utility Requirements

- Eductor drive gas (air, nitrogen, or sample gas)
- Hydrogen (with Total Sulfur option)

Certifications

- CSA/UL: Class I Zone 2, AEx ec db ic op is IIB+H₂ T₃ Gc
- IECEx: Ex ec db ic op is IIB+H₂ T₃ Gc
- Enclosure: Type 4X / IP68
- Ambient Temp Rating: 0° to +55°C
- Class I Division 2, Groups BCD T₃

BENEFITS

Fast Excursion Alarms

Low ppb sensitivity and predictive alarm analysis deliver industry-leading measurement-to-alarm in <20 seconds.

New Tape Drive System

Improved tape-to-tape repeatability with up to 70 days on a single roll. Front-facing tape system simplifies tape changes and waste removal.

Small Footprint

Lower panel space, easier retrofits, and lighter weight installations. Results in a better fit for compressor stations, metering buildings, and brownfield upgrades.

COMMUNICATION

Configuration Software

Web browser–based interface for local or remote connection (no installs required).

Modbus

TCP/IP or RTU with User configurable list

Analysis Output

- H₂S (ASTM D4084)
- True Total Sulfur (with TS option)

APPLICATION



Range	Low: 0 – 100 ppb Standard: 0 – 300 ppm High: 0 – 100% with dilution
Sensitivity	5 ppb
Accuracy	+/- 2% FS
Repeatability	+/- 2% FS
Sensitivity	+/- 1% FS
Response	Measurement-to-alarm: <20s Absolute measurement T ₉₀ : 3 min

PROTECH™ 1000 Z2 SPECIFICATIONS

Ambient Temperature	0° to 55°C (32°F to 131°F)
Sample Gas Consumption	100 sccm (0.21 scfh)
Sample Gas Temperature	0° to 100°C (32°F to 212°F)
LDL	5 ppb
Repeatability	+/- 2% FS
Multi-stream capability	H ₂ S: Up to 4 Total Sulfur: Up to 3
Web-based Configuration Software	Yes
Local Display	5" 800x400, full color
Modbus	TCP/IP or RTU
Communication Ports	2x RJ45; 1x RS485
IO Signals	Analog Output, 4–20 mA (x4) Digital Input, wet or dry (x4) Dry contact relay (x4)
Dimensions	Single Stream: 16"h x 12"w x 8"d (406mm x 305mm x 203mm) Multi-Stream: 27"h x 33"w x 8"d (686mm x 838mm x 203mm) Total Sulfur: 34"h x 55"w x 8"d (857mm x 1394mm x 203mm)
Weight	18 kg (40 lbs) before add-ons and options
Power	24 Vdc, 100W 100–125 Vac, 100W 220–240 Vac, 100W Total sulfur option: AC-only, 480W Max Dual redundant AC power with DC back-up option
Installation	Fast-loop sample system preferred. Must be installed indoors or under shelter.